

Claims

1. Closed-pored silicone foams obtainable from the reaction of a mixture of
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- a) 100 parts by weight of at least one vinyl-containing, linear or branched organopolysiloxane containing at least 2 vinyl groups and having a viscosity of from 0.1 to 1000 Pa.s,
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- b) from 3 to 200 parts by weight of at least one, optionally surface-modified, filler,
- c) from 0.5 to 10 parts by weight of hydrosiloxane having at least 3 SiH functions per molecule,
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- d) from 0.01 to 10 ppm of platinum in the form of a platinum catalyst,
- e) from 0.01 to 5 parts by weight of an inhibitor and
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- f) from 0.3 to 10 parts by weight of finely divided ammonium hydrogen carbonate having a mean particle size of less than 40 μm as blowing agent,
- which are foamed and cured at temperatures above 60°C.
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2. Closed-pored silicone foams according to Claim 1, characterized in that component a) is a vinyl-terminated polydimethylsiloxane having a viscosity of from 0.5 to 150 Pa.s, if desired in admixture with polydimethylsiloxanes containing lateral vinyl groups.
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3. Closed-pored silicone foams according to either Claim 1 or 2, characterized in that component b) is a finely divided, pyrogenic or precipitated silica which may optionally be surface-modified with hexamethyldisilazane/tetramethyldivinylsilazane.
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4. Closed-pored silicone foams according to any of Claims 1 to 3, characterized in that component d) is at least one Pt(0) complex having vinylsiloxanes as ligands.
- 5 5. Closed-pored silicone foams according to any of Claims 1 to 4, characterized in that the inhibitor e) is tetramethyldivinylidisiloxane and/or tetramethyl-tetravinylcyclotetrasiloxane and/or ethinylcyclohexanol.
6. Closed-pored silicone foams according to any of Claims 1 to 5, characterized in that the mean particle size of the blowing agent f) is less than 20 μm .
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7. Process for producing closed-pored silicone foams, characterized in that mixtures according to Claim 1 are mixed from the components a) to f) at a temperature of $\leq 50^\circ\text{C}$, applied to a substrate by means of a doctor blade and foamed and simultaneously cured at temperatures above 60°C .
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- ~~8.~~ Process for producing moulded foam, characterized in that the components a) to c) and, if desired, e) are injected into moulds by means of injection moulding and are foamed and cured there at temperatures of $> 60^\circ\text{C}$.
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9. Use of the silicone foams according to Claim 1 on textiles, also with incorporation of woven wire meshes, as upholstery material and as thermal insulation and fire protection material.